PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P13506WO			FOR FURTHER ACTION		See Form PCT/II	See Form PCT/IPEA/416		
International application No. PCT/EP2004/051882			International filing da 24.08.200		Priority date (date 08.09.2	•		
	onal Patent 6		(IPC) or nat	ional classification and	IPC			
Applican		AKTIEN(GESELL	SCHAFT				
1.	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						ninary Examining Authority	
2.	This REPO	ORT consists	of a total of	5	sheets, in	cluding this cover sheet.		
3.		is also accor	npanied by A	ANNEXES, comprising:				
	a. 🔀	(sent to the	applicant and	d to the International Bu	reau) a total of		sheets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
	b	Box. (sent to the l	International	Bureau only) a total of	(indicate type and	number of electronic carr	ier(s))	
						, containing a se	equence listing and/or tables	
				er readable form only, a strative Instructions).	s indicated in the	Supplemental Box Relati	ing to Sequence Listing (see	
4.	This report	contains ind	ications relat	ing to the following iten	ns:			
	Во	x No. I	Basis of th	e report				
	Во	x No. II	Priority					
	Во	x No. III	Non-establ	ishment of opinion with	shment of opinion with regard to novelty, inventive step and industrial applicability			
	Во	x No. IV	Lack of un	ty of invention				
	Во	x No. V		statement under Article ? nd explanations supporti		o novelty, inventive step	or industrial applicability;	
	Во	x No. VI	Certain do	cuments cited				
	Во	x No. VII	Certain det	fects in the international	application			
Box No. VIII Certain observations on the international application								
Date of s	submission o	of the demand	1		Date of completio	n of this report		
Name and mailing address of the IPEA/EP					Authorized officer			
					m.i. i			
Facsimil	e No.				Telephone No.			

International application No.

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Box	No. I		Basis of the report						
1.			that to the language, this report is based on the international of this item.	nal application in the language in	which it was filed, unless otherwise				
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:							
			international search (Rule 12.3 and 23.1(b))						
		publication of the international application (Rule 12.4)							
		Ш	international preliminary examination (Rule 55.2 and	/or 55.3)					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):								
		the in	ternational application as originally filed/furnished						
	\boxtimes	the de	escription:						
		pages	1-7		as originally filed/furnished				
		pages	*	received by this Authority on					
		pages	**	received by this Authority on					
	\boxtimes	the cl	aims:						
		nos.	2-11		as originally filed/furnished				
		nos.*		as amended (togethe	r with any statement) under Article 19				
		nos.*	1		05.07.2005 with letter				
		nos.*		received by this Authority on					
	\boxtimes	the di	rawings:						
		sheet			as originally filed/furnished				
		sheet							
		sheet							
	П								
	\exists	_	sequence listing and/or any related table(s) — see Supplemental Box Relating to Sequence Listing.						
3.	Ш	The a	umendments have resulted in the cancellation of:						
		H	the description, pages						
		\vdash	the claims, nos.						
		님	the drawings, sheets/figs						
			the sequence listing (specify):						
		Ш							
4.			report has been established as if (some of) the amend have been considered to go beyond the disclosure as fi	led, as indicated in the Supplemen	ntal Box (Rule 70.2(c)).				
		님	the description, pages						
		Н	the claims, nos.						
			the drawings, sheets/figs						
			the sequence listing (specify):						
		Ш	any table(s) related to sequence listing (specify):						
*	If ite	ет 4 ар	plies, some or all of those sheets may be marked "sup	erseded."					

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Boz	x No. V				ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement					
	Novelty	y (N)		Claims	1-11	YES
				Claims		
	Inventive step (IS)			Claims		YES
				Claims	1-11	
	Industrial applicability (IA)			Claims		
		11	3 ()		1-11	
2.	Citations a	nd explan	ations (Rule	70.7)		
	1.	Refe	rence	is mad	de to the following documents:	
		D1:	"TCP/	IP Tut	corial and Technical Overview", IBM	
			REDBO	OKS,	[Online] August 2001 (2001-08), pages	
			180-1	97, XI	2002306248 USA, found on the Internet:	
			URL:h	ttp://	/www.redbooks.ibm.com/redbooks/p	
			dfs/g	g24331	76.pdf> [found on 2004-11-15]	
		D2:	WO 97	/01230	A (MCI COMMUNICATIONS CORP),	
			9 Jan	uary 1	1997 (1997-01-09)	
		D3:	LEE K	J ET	AL: "DISTRIBUTED ROUTING USING	
			TOPOL	OGY DA	ATABASE IN LARGE COMPUTER NETWORKS"	
			NETWO	RKS: I	EVOLUTION OR REVOLUTION? NEW ORLEANS,	
			MAR.	27 - 3	31, 1988, PROCEEDINGS OF THE ANNUAL JOI	NT
			CONFE	RENCE	OF THE COMPUTER AND COMMUNICATIONS	
			SOCIE	TIES.	(INFOCOM), NEW YORK, IEEE, US, Vol.	
			CONF.	7, 2	7 March 1988 (1988-03-27), pages 593-60	2,
			XP000	043740	O, ISBN 0 8186-0833-1	
	2.	Clai	m 1 fa	ils to	o meet the requirements of PCT Article	
		33(1) beca	use it	ts subject matter does not involve an	
		inve	ntive	step	(PCT Article 33(3)). The reasons for	
			are a	_		

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2.1 Document D1, which is considered to be the prior art closest to the subject matter of claim 1, discloses the following (the references in parentheses are to D1):

A method for retiring inter-domain routes, in which:

- a router in a first autonomous system detects the failure of a link between two autonomous systems (paragraph 4.9.3.5);
- the router sends an update message to a second autonomous system to effect a cancellation of the routes that are no longer usable (paragraph 4.3.9.4);
- a router in the second autonomous system retires the routes in question (paragraph 4.3.9.4).
- 2.2 The subject matter of claim 1 differs from what is known from D1 in that the update message reports failed segments of inter-domain routes, instead of indicating which routes are to be cancelled. Thus the information communicated relates to segments that might form parts of routes which are no longer usable, rather than to whole routes.

The advantage is a reduction in the amount of information that needs to be communicated. Instead of reporting whole routes, the messages specify only the segments which are actually affected in each case. This significantly reduces the amount of network traffic.

2.3 With regard to this feature, document D3 describes the

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

same advantages as the present application. In view of the comments in paragraphs 1 and 3.2 of document D3 a person skilled in the art would consider it a routine procedure to combine all the features specified in claim 1. Hence the statement of the problem cannot be regarded as inventive (PCT Article 33(3)).

3. Dependent claims 2 to 11 do not contain any features that meet the PCT requirements in respect of novelty or inventive step when combined with the features of any of the back-referenced claims (see documents D1, D2 and D3 and the passages cited in the international search report).